



October 06, 2014

Brady Gerber Integrated Solutions 215 S. Laura Wichita, KS 67211

RE: Project: CLEAN HARBORS-WICHITA KS

Pace Project No.: 60179418

# Dear Brady Gerber:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

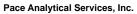
Sincerely,

Shuri Dosenstande

Sherri Rosenstangle sherri.rosenstangle@pacelabs.com Project Manager

**Enclosures** 





Pace Analytical www.pacelabs.com

9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

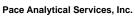
### **CERTIFICATIONS**

Project: CLEAN HARBORS-WICHITA KS

Pace Project No.: 60179418

**Kansas Certification IDs** 

9608 Loiret Boulevard, Lenexa, KS 66219 WY STR Certification #: 2456.01 Arkansas Certification #: 13-012-0 Illinois Certification #: 003097 lowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407 Utah Certification #: KS00021



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# **SAMPLE SUMMARY**

Project: CLEAN HARBORS-WICHITA KS

Pace Project No.: 60179418

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60179418001	NE3-SW4A-2.5'	Solid	10/02/14 16:10	10/03/14 10:00



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# **SAMPLE ANALYTE COUNT**

Project: CLEAN HARBORS-WICHITA KS

Pace Project No.: 60179418

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60179418001	NE3-SW4A-2.5'	EPA 6010	TDS	1
		ASTM D2974	DWC	1

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### **ANALYTICAL RESULTS**

Project: CLEAN HARBORS-WICHITA KS

Pace Project No.: 60179418

Percent Moisture

Date: 10/06/2014 04:18 PM

Sample: NE3-SW4A-2.5' Lab ID: 60179418001 Collected: 10/02/14 16:10 Received: 10/03/14 10:00 Matrix: Solid

8.8 %

Results reported on a "dry-weight" basis **Parameters** Results Units Report Limit DF Prepared Analyzed CAS No. Qual Analytical Method: EPA 6010 Preparation Method: EPA 3050 6010 MET ICP Red. Interference Chromium 185 mg/kg 1.0 10/03/14 14:55 10/06/14 11:27 7440-47-3 M1 Analytical Method: ASTM D2974 **Percent Moisture** 

0.50

1

10/03/14 00:00



### **QUALITY CONTROL DATA**

Project: CLEAN HARBORS-WICHITA KS

Pace Project No.: 60179418

Date: 10/06/2014 04:18 PM

QC Batch: MPRP/29168 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Associated Lab Samples: 60179418001

METHOD BLANK: 1453640 Matrix: Solid

Associated Lab Samples: 60179418001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Chromium mg/kg ND 0.50 10/06/14 10:53

LABORATORY CONTROL SAMPLE: 1453641

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chromium mg/kg 100 95.9 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1453642 1453643

MS MSD 60179418001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 75-125 20 M1 Chromium mg/kg 185 110 96.1 201 169 14 -16 17

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALITY CONTROL DATA**

Project: CLEAN HARBORS-WICHITA KS

Pace Project No.: 60179418

QC Batch: PMST/10079 Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 60179418001

METHOD BLANK: 1453634 Matrix: Solid

Associated Lab Samples: 60179418001

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Percent Moisture % ND 0.50 10/03/14 00:00

SAMPLE DUPLICATE: 1453635

Date: 10/06/2014 04:18 PM

 Percent Moisture
 Wax Result
 Dup RPD
 Max RPD
 Qualifiers

 Percent Moisture
 %
 8.8
 8.9
 1
 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALIFIERS**

Project: CLEAN HARBORS-WICHITA KS

Pace Project No.: 60179418

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### **ANALYTE QUALIFIERS**

Date: 10/06/2014 04:18 PM

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



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# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: CLEAN HARBORS-WICHITA KS

Pace Project No.: 60179418

Date: 10/06/2014 04:18 PM

Lab ID	Sample ID	QC Batch Method	QC Batch Analytical Method	Analytical Batch
60179418001	NE3-SW4A-2.5'	EPA 3050	MPRP/29168 EPA 6010	ICP/21949
60179418001	NE3-SW4A-2.5'	ASTM D2974	PMST/10079	



# Sample Condition Upon Receipt



Client Name: TSI				Optional
Courier: Fed Ex  ☐ UPS □ USPS □ Client □ C	Commercial   Pa	ace 🗆 Other 🗆		Proj Due Date:
Tracking #: <u>8715 6493 7262</u> Pa	ce Shipping Label U	Jsed? Yes □ N	∘≽∕	Proj Name:
Custody Seal on Cooler/Box Present: Yes ⋈ No □	l Seals intact: Y	′esyd⊡ No⊡		
Packing Material: Bubble Wrap 🗖 Bubble Bags	s □ Foam	□ None □	Other □	
	e of Ice: (Ve) Blue		les received on	ice, cooling process has begun.
Cooler Temperature: 3.6	(circle	e one)	Date and initial	s of person examining
Temperature should be above freezing to 6°C		T	contents: _ O P	10/3/17 /1/0
Chain of Custody present:	Yes No N/A	1.		
Chain of Custody filled out:	ØYes □No □N/A	2.		
Chain of Custody relinquished:	✓Yes □No □N/A	3.		
Sampler name & signature on COC:	Yes No N/A	4.		
Samples arrived within holding time:	ZYes □No □N/A	5.		
Short Hold Time analyses (<72hr):	□Yes ≯No □N/A	6.		
Rush Turn Around Time requested:	□Yes ĦNo □N/A	7.		
Sufficient volume:	PAYes □No □N/A	8.		5
Correct containers used:	PFYes □No □N/A			
Pace containers used:	☑Yes ☐No ☐N/A	9.		
Containers intact:	☑Yes □No □N/A	10.		
Unpreserved 5035A soils frozen w/in 48hrs?	ØYes □No □N/A	11.		
Filtered volume received for dissolved tests?	□Yes □No ►N/A	12.		
Sample labels match COC:	<b>Æ</b> Yes □No □N/A			
Includes date/time/ID/analyses Matrix:	1	13.		
All containers needing preservation have been checked.	□Yes □No DAN/A			
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ÆN/A	14.		
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	Yes □No	Initial when completed	IE.	of added ervative
Trin Blank present	₽Yes □No □N/A	1	, prose	
Pace Trip Blank lot # (if purchased):		15.		
Headspace in VOA vials ( >6mm):	□Yes 😾No □N/A			
	/	16.		
Project sampled in USDA Regulated Area:	□Yes □No 🖼N/A	17. List State:		
Client Notification/ Resolution: Copy COC	to Client? (Y) /	N Field Data I	Required? Y	(2)
Person Contacted: Date	e/Time:			
Comments/ Resolution:	· · · · · · · · · · · · · · · · · · ·			
		i'A A	1.1	
Project Manager Review:	_	Date: 10-3	14	
			17	

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical

Pace Project No./ Lab I.D. (N/X) **DRINKING WATER** Samples Intact SAMPLE CONDITIONS OTHER Cooler (Y/N) (wern) Custody Sealed of Ice (Y/N) GROUND WATER Residual Chlorine (Y/N) 0 O° ni qmeT M Page: \$ REGULATORY AGENCY RCRA 1000 TIME Requested Analysis Filtered (YIN) H1/20/01 Site Location STATE: 10/3/14 NPDES DATE UST Klens DATE Signed (MM/DD/YY): ACCEPTED BY / AFFILIATION Throm it, m PYO SVOC SIM - 1,4 Dioxane **560 VOC** Test Test N/A Sherri Rosenstangle Other Clean Harbors Methanol Preservatives Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> HORN Reference:
Pace Project Sherri Romanger:
Pace Profile #: 7745.1 HCI Invoice Information: HNO<sup>3</sup> Company Name: <sup>5</sup>OS<sup>7</sup>H Section C Unpreserved ace Quote TIME 900 Attention: Address: # OF CONTAINERS SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: SAMPLE TEMP AT COLLECTION とてる DATE TIME 00 V COMPOSITE END/GRAB 102-14 white DATE COLLECTED RELINQUISHED BY / AFFILIATION TIME Chan the hors-COMPOSITE DATE Required Project Information SAMPLE TYPE (G=GRAB C=COMP) urchase Order No. (see valid codes to left) MATRIX CODE Project Number roject Name: Section B Report To: Copy To: Valid Matrix Codes
MATRIX
CODE
DRININGING WATER
WASTER
WASTER
WASTER
WASTER
WIT
SOLICALLO
SOLICALO
AIR
AIR
AIR
TISSUE
TISSUE
TISSUE bye le (B) Jenvianne Al. Can 1279 ADDITIONAL COMMENTS (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE 15% 44 SAMPLE ID Section D Required Client Information SW 32-62 W. 2 L. 12 Required Client Information: Requested Due Date/TAT: N£3-Section A . Нопе: 311 Company: mail To: Page 11 of 11 Address: ~ ന 10 9 0 2 7 12 # M3TI

F-ALL-Q-020rev:07, 15-Feb-2007

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.